REMARKS

Claims 1 to 3 have been amended and claim 4 has been canceled without prejudice. Claims 1 to 3 are now active in this application.

Claim 1 now requires an improved encoder for a CATV upstream data channel transmitter having a BICM encoder for receiving data values, the encoder concatenated with an outer Reed-Solomon encoder. No such structure is taught or suggested by Kaiser et al. either alone or in the combination as claimed.

Claim 1 further requires a bit-interleaver interconnected with the encoder, and a symbol mapper interconnected with the bit-interleaver. No such combination is taught or suggested byKaiser et al.
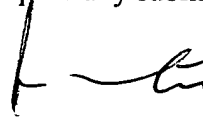
Claim 2 depends from claim 1 and therefore defines patentably over Kaiser et al. for at least the reasons presented above with reference to claim 1.

In addition, claim 2 further limits claim 1 by requiring that the simple mapper be a QAM mapper. No such structure is taught or suggested by Kaiser et al. either alone or in the combination as claimed.

Claim 3 recites the features of claim 1 and further requires a bit interleaved decoder for a CATV upstream channel receiver having a scorer for receiving symbols, a bit de-interleaver interconnected with said scorer, and a convolutional decoder interconnected with said bit de-interleaver. No such combination is taught or suggested by Kaiser et al.

In view of the above remarks, favorable reconsideration and allowance are respectfully requested.

Respectfully submitted,
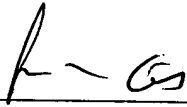
Jay M. Cantor
Reg. No. 19906
(301) 424-0355
(972) 917-5293

Amendment 37 C.F.R. 1.111
Two Month EOT

11-3-03

Jay M. Cantor

In re application of

OFIR SHALVI ET AL.

Serial No. 09/493,526 (TI-30149)

Filed January 28, 2000

For: METHOD FOR COMBATING INGRESS AND
     IMPULSE NOISE USING CODED MODULATION